

## ABSTRACT

A COS treatment apparatus for a gasified gas includes an O<sub>2</sub> removal catalyst and a COS conversion catalyst located on the downstream side of a gasified gas flow with respect  
5 to the O<sub>2</sub> removal catalyst. Also, a COS treatment apparatus includes a TiO<sub>2</sub> catalyst that carries Cr<sub>2</sub>O<sub>3</sub> or NiO. Further, a COS treatment method includes a first step in which O<sub>2</sub> is removed by the reaction with H<sub>2</sub>S and CO, and a second step in which COS is converted to H<sub>2</sub>S.